

# ABSTRACT OF THE DISCLOSURE

To provide an emulsion producing apparatus capable of producing an emulsion which is difficult to separate and is stabilized, and capable of achieving a reduction in cost and small-sized formation, there is provided an emulsion producing apparatus including mixing means for mixing liquids, a pressure rising pump for rising pressure of a mixture solution produced by the mixing means and emulsifying means 60 having a plurality of chambers 61A partitioned by partition walls 64 and formed with three small holes 64A at each of the partition walls for communicating the chambers 61A contiguous to the partition wall 64. The mixture solution pressurized to the emulsifying means 60 by the pressure rising pump, is injected from the small hole 64A of the partition wall 64 under high pressure and at high speed to thereby produce fluid friction. Accordingly, particles of the mixture solution can be made fine and a stable water emulsion fuel having excellent quality can be provided. Further, the emulsion producing apparatus is constituted by the mixing means and the emulsifying means 60 having a simple structure and therefore, downsizing of a total of the apparatus and a reduction in cost can be achieved.